TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	04-10-2019
		Date of Testing	04-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	276	276	2.76	97.24	95 - 100
10.00 mm	4850	5126	51.26	48.74	25 - 55
4.75 mm	4230	9356	93.56	6.44	0 - 10
Pan	644	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.				
Consultants	TEJUS CONSULTANTS				
Contractor	M/s N LOKANATH REDDY				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	04-10-2019	
			Date of Testing	04-10-2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	539	539	5.39	94.61	90-100
10.0	4625	5164	51.64	48.36	40-85
4.75	4530	9694	96.94	3.06	0-10
Pan	306	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Asst. E.E.

Assistant Executive Engineer,
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TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04-10-2019	11-10-2019	7 days	8.300	22500	439	19.51	19.51
2	04-10-2019	11-10-2019	7 days	8.320	22500	438	19.47	
3	04-10-2019	11-10-2019	7 days	8.325	22500	440	19.56	

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TEJUS
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	04-10-2019	01-11-2019	28 days	8.132	22500	684	30.40	30.31
2	04-10-2019	01-11-2019	28 days	8.140	22500	682	30.31	
3	04-10-2019	01-11-2019	28 days	8.142	22500	680	30.22	

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement
Date of Sample Tested	07-10-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	39	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	280	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	07-10-2019
Period of Soaking	24 hours	Date of Testing	07-10-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	659	675	660	
B	Weight of oven - dry sample gm.	644	665	655	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1688	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.618	2.671	2.673	2.654
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.329	1.504	0.763	1.532

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms	Proposed Use	concrete
Type of Material	Fine aggregate (River Sand/ M sand)	Date of Sampling	07-10-2019
Sample Location	At Site/Plant	Date of Testing	07-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	265	265	8.83	91.17	90 - 100
2.36 mm	310	575	19.17	80.83	75 - 100
1.18 mm	415	990	33.00	67.00	55 - 90
0.600 mm	485	1475	49.17	50.83	35 -59
0.300 mm	715	2190	73.00	27.00	8-30
0.150 mm	610	2800	93.33	6.67	0 - 10
Pan	200	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor	M/s N LOKANATH REDDY	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	07-10-2019
		Date of Testing	07-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	290	290	2.90	97.10	95 - 100
10.00 mm	4845	5135	51.35	48.65	25 - 55
4.75 mm	4226	9361	93.61	6.39	0 - 10
Pan	639	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.	
Consultants	TEJUS CONSULTANTS	
Contractor	M/s N LOKANATH REDDY	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete
Sample Location	At Site/Plant	Date of Sampling	07-10-2019
		Date of Testing	07-10-2019

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	555	555	5.55	94.45	90-100
10.0	4635	5190	51.90	48.10	40-85
4.75	4530	9720	97.20	2.80	0-10
Pan	280	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07-10-2019	14-10-2019	7 days	8.300	22500	439	19.51	19.53
2	07-10-2019	14-10-2019	7 days	8.320	22500	437	19.42	
3	07-10-2019	14-10-2019	7 days	8.325	22500	442	19.64	

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07-10-2019	04-11-2019	28 days	8.132	22500	681	30.27	30.30
2	07-10-2019	04-11-2019	28 days	8.140	22500	682	30.31	
3	07-10-2019	04-11-2019	28 days	8.142	22500	682	30.31	

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TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Sample ID	Cement
Date of Sample Tested	10-10-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	41	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	282	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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Bangalore.

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	10-10-2019
Period of Soaking	24 hours	Date of Testing	10-10-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		651	662	667	
B	Weight of oven - dry sample gm.		641	640	652	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1685	1688	1690	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.660	2.570	2.587	2.606
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.560	3.438	2.301	2.433

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	Tejus Consultants, Bangalore
Contractor	M/s N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	3000 gms	Proposed Use	concrete
Type of Material	Fine aggregate (River Sand/ M sand)	Date of Sampling	10-10-2019
Sample Location	At Site/Plant	Date of Testing	10-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	250	250	8.33	91.67	90 - 100
2.36 mm	326	576	19.20	80.80	75 - 100
1.18 mm	442	1018	33.93	66.07	55 - 90
0.600 mm	495	1513	50.43	49.57	35 -59
0.300 mm	721	2234	74.47	25.53	8-30
0.150 mm	625	2859	95.30	4.70	0 - 10
Pan	141	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s N LOKANATH REDDY
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete
Sample Location	Plant/At site	Date of Sampling	10-10-2019
		Date of Testing	10-10-2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	287	287	2.87	97.13	95 - 100
10.00 mm	4851	5138	51.38	48.62	25 - 55
4.75 mm	4237	9375	93.75	6.25	0 - 10
Pan	625	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Consultants	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	Concrete	
Sample Location	At Site/Plant	Date of Sampling	10-10-2019	
		Date of Testing	10-10-2019	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	558	558	5.58	94.42	90-100
10.0	4640	5198	51.98	48.02	40-85
4.75	4541	9739	97.39	2.61	0-10
Pan	261	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-10-2019	17-10-2019	7 days	8.300	22500	438	19.47	19.54
2	10-10-2019	17-10-2019	7 days	8.320	22500	440	19.56	
3	10-10-2019	17-10-2019	7 days	8.325	22500	441	19.60	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s N LOKANATH REDDY
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-10-2019	07-11-2019	28 days	8.132	22500	680	30.22	30.25
2	10-10-2019	07-11-2019	28 days	8.140	22500	683	30.36	
3	10-10-2019	07-11-2019	28 days	8.142	22500	679	30.18	

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